

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: Wed Jun 13 13:28:55 EDT 2007

=====

Application No: 10591360

Version No: 1.0

Input Set:**Output Set:****Started:** 2007-06-13 12:41:14.547**Finished:** 2007-06-13 12:41:17.491**Elapsed:** 0 hr(s) 0 min(s) 2 sec(s) 944 ms**Total Warnings:** 72**Total Errors:** 0**No. of SeqIDs Defined:** 99**Actual SeqID Count:** 99

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (21)
W 213	Artificial or Unknown found in <213> in SEQ ID (22)
W 213	Artificial or Unknown found in <213> in SEQ ID (23)
W 213	Artificial or Unknown found in <213> in SEQ ID (24)
W 213	Artificial or Unknown found in <213> in SEQ ID (25)
W 213	Artificial or Unknown found in <213> in SEQ ID (26)
W 213	Artificial or Unknown found in <213> in SEQ ID (27)
W 213	Artificial or Unknown found in <213> in SEQ ID (28)
W 213	Artificial or Unknown found in <213> in SEQ ID (29)
W 213	Artificial or Unknown found in <213> in SEQ ID (30)
W 213	Artificial or Unknown found in <213> in SEQ ID (31)
W 213	Artificial or Unknown found in <213> in SEQ ID (32)
W 213	Artificial or Unknown found in <213> in SEQ ID (33)
W 213	Artificial or Unknown found in <213> in SEQ ID (34)
W 213	Artificial or Unknown found in <213> in SEQ ID (35)
W 213	Artificial or Unknown found in <213> in SEQ ID (36)
W 213	Artificial or Unknown found in <213> in SEQ ID (37)
W 213	Artificial or Unknown found in <213> in SEQ ID (38)
W 213	Artificial or Unknown found in <213> in SEQ ID (39)
W 213	Artificial or Unknown found in <213> in SEQ ID (40)

Input Set:

Output Set:

Started: 2007-06-13 12:41:14.547
Finished: 2007-06-13 12:41:17.491
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 944 ms
Total Warnings: 72
Total Errors: 0
No. of SeqIDs Defined: 99
Actual SeqID Count: 99

Error code

Error Description

This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> Li, Xia
 Li, Weihua
 Reed, Danielle R.
 Bachmanov, Alexander A.
 Brand, Joseph G.

<120> TASTE RECEPTORS OF THE T1R FAMILY FROM DOMESTIC CAT

<130> MON-0345

<140> 10591360

<141> 2007-06-13

<150> US 10/591,360

<151> 2004-05-13

<150> PCT/US2004/015136

<151> 2004-05-13

<150> US 60/554,751

<151> 2004-03-19

<150> US 60/482,992

<151> 2003-06-27

<160> 99

<170> PatentIn version 3.3

<210> 1

<211> 2569

<212> DNA

<213> Felis catus

<400> 1

atgcccggcc tcgctctcct gggcctcacg gctctcctgg gcctcacggc tctcttggac 60

cacggggagg ggcgaacgtc ctgcttgtca cagcagctca ggatgcaggg ggactatgtg 120

ctgggtgggc tcttcctctt gggtcttgcc gagggtagag gtcttggcga cgggctgcag 180

cccaatgcc a cgtgtgcac caggttctcg tctctgggcc tgctctgggc gctggccgtg 240

aagatggcgg tggaggagat caacaacggg tcggccctgc tgcccgggct gcacctgggc 300

tatgacctct ttgacacgtg ttcagagccc atggtggcca tgaagcccag cctcgtgttc 360

atggccaaag caggcagctg cagcattgcc gcctactgca attacacaca gtaccagccc 420

cgcgtgctgg ccgtcatcgg gcccactcg tctgagctcg cctcgtcac cggcaagttc 480

ttcagcttct tccttgtgcc tcaggtcagc tacggcgcca gcaccgaccg gctgagcaac 540

cgggagatct tcccgtcctt cttccgcacg gtgccagcg accagggtgca ggtggcggcc 600

atggtggagc tgctggagga gctcggtggt aactgggtgg cggcgggtggg tagtgacgac	660
gagtatggcc ggcagggcct gagcctcttc tccggcctgg ccagcgccag gggcatctgc	720
atcgcgcatg agggcctggt gccactgccg ccaggcagcc tgcggctggg cgccctacag	780
ggcctgctgc gccaggtgaa ccagagcagc gtgcagggtg tgggtgctgtt ctctccgcc	840
cacgcggccc gcaccctctt cagctacagc atccgctgca agctctcacc caaggtgtgg	900
gtggccagcg aggcctggct gacctcagac ctggtcatga cgctgcccgg catgcctggg	960
gtgggcaccg tgctgggctt cctgcagcag ggcgccccga tgccggagtt cccatcctac	1020
gtgcggaccc gcctggccct ggccgctgac cctgccttct gcgcctcget ggacgctgaa	1080
cagccaggcc tggaggagca cgtggtgggg ccacgctgcc cccaatgtga ccacgtcacg	1140
ctagagaacc tatctgcggg gctgctgcac caccagacct tcgctgccta cgcggtgtg	1200
tatggcgtgg cccaagccct tcacaacaca ctgcgctgca atgcctcggg ctgcccagg	1260
cgggagcctg tgcggccctg gcagctccta gagaacatgt acaacgtgag cttccgtgct	1320
cgcggcctgg cactgcagtt cgacgccagc gggaacgtga acgtggatta cgacctgaaa	1380
ctgtgggtgt ggcaggaccc gacgcccag ctgcgcaccg taggcacctt caagggccgc	1440
ctggagctct ggcgctctca gatgtgctgg cacacgccgg ggaagcagca gcccggtgcc	1500
cagtgtctcc ggcagtgcaa ggaaggccag gtgcgcgcgg tgaagggtt cactcttgc	1560
tgttacaact gcgtggactg caaggcgggc agttatcagc gcaaccacaga tgacctctc	1620
tgcaccagtg gtgaccagga ccagtggctc ccagaccgga gcacacgctg cttcgcccgc	1680
aagcccatgt tcctggcatg gggggagcca gctgtgctgc tactgctcgc gctgctggct	1740
ctggcgctgg gcctggcgct ggcagccctg gggtcttcc tctggcactc ggacagcccg	1800
ctggttcagg cctcagggtg gccacgggcc tgetttggcc tggcttgctt gggcctggtc	1860
tgctcagtg tcctcctgtt ccctggccag ccaggccctg ccagctgctt ggcccagcag	1920
ccactgttcc acctccact cactggctgc ctgagcacgt ttttctgca agcggccgag	1980
atatttgtgg ggtcggagct gccaccaagc tgggctgaga agatgcgtgg ccgcctgcgg	2040
gggccctggg cctggctggt ggtgctgctt gctatgctgg cagaagccgc attgtgtgcc	2100
tggtagctgg tagccttccc gccagagggtg gtgacggact ggcggtact gccacagag	2160
gcgctggtgc actgccacgt gacctcctgg atcagcttcg gcctggtgca tgccactaac	2220
gccatgctgg ccttctctg cttcctgggc actttcctgg tgcagagccg gccaggccgc	2280
tacaatggtg cccgcggcct cacctttgcc atgctggcct acttcatcac ctggatctcc	2340

```

tttgtgcccc tctttgccaa tgtgcacgtg gcctaccagc ctgccgtgca gatgggcacc 2400
atcctcctct gtgccttggg taccctagcc accttccacc tgcccaagtg ctacctgctg 2460
ctgcagcggc cggagctcaa caccctgag ttcttctctg aagacaatgc cagagcacag 2520
ggcagcagtt gggggcaggg gaggggagaa tcggggcaaa aacaagtga 2569

```

```

<210> 2
<211> 865
<212> PRT
<213> Felis catus

```

```

<400> 2

```

```

Met Pro Gly Leu Ala Leu Leu Gly Leu Thr Ala Leu Leu Gly Leu Thr
1           5           10           15

```

```

Ala Leu Leu Asp His Gly Glu Gly Ala Thr Ser Cys Leu Ser Gln Gln
          20           25           30

```

```

Leu Arg Met Gln Gly Asp Tyr Val Leu Gly Gly Leu Phe Pro Leu Gly
          35           40           45

```

```

Ser Ala Glu Gly Thr Gly Leu Gly Asp Gly Leu Gln Pro Asn Ala Thr
          50           55           60

```

```

Val Cys Thr Arg Phe Ser Ser Leu Gly Leu Leu Trp Ala Leu Ala Val
          65           70           75           80

```

```

Lys Met Ala Val Glu Glu Ile Asn Asn Gly Ser Ala Leu Leu Pro Gly
          85           90           95

```

```

Leu His Leu Gly Tyr Asp Leu Phe Asp Thr Cys Ser Glu Pro Met Val
          100          105          110

```

```

Ala Met Lys Pro Ser Leu Val Phe Met Ala Lys Ala Gly Ser Cys Ser
          115          120          125

```

```

Ile Ala Ala Tyr Cys Asn Tyr Thr Gln Tyr Gln Pro Arg Val Leu Ala
          130          135          140

```

```

Val Ile Gly Pro His Ser Ser Glu Leu Ala Leu Val Thr Gly Lys Phe
          145          150          155          160

```

Phe Ser Phe Phe Leu Val Pro Gln Val Ser Tyr Gly Ala Ser Thr Asp
165 170 175

Arg Leu Ser Asn Arg Glu Ile Phe Pro Ser Phe Phe Arg Thr Val Pro
180 185 190

Ser Asp Gln Val Gln Val Ala Ala Met Val Glu Leu Leu Glu Glu Leu
195 200 205

Gly Trp Asn Trp Val Ala Ala Val Gly Ser Asp Asp Glu Tyr Gly Arg
210 215 220

Gln Gly Leu Ser Leu Phe Ser Gly Leu Ala Ser Ala Arg Gly Ile Cys
225 230 235 240

Ile Ala His Glu Gly Leu Val Pro Leu Pro Pro Gly Ser Leu Arg Leu
245 250 255

Gly Ala Leu Gln Gly Leu Leu Arg Gln Val Asn Gln Ser Ser Val Gln
260 265 270

Val Val Val Leu Phe Ser Ser Ala His Ala Ala Arg Thr Leu Phe Ser
275 280 285

Tyr Ser Ile Arg Cys Lys Leu Ser Pro Lys Val Trp Val Ala Ser Glu
290 295 300

Ala Trp Leu Thr Ser Asp Leu Val Met Thr Leu Pro Gly Met Pro Gly
305 310 315 320

Val Gly Thr Val Leu Gly Phe Leu Gln Gln Gly Ala Pro Met Pro Glu
325 330 335

Phe Pro Ser Tyr Val Arg Thr Arg Leu Ala Leu Ala Ala Asp Pro Ala
340 345 350

Phe Cys Ala Ser Leu Asp Ala Glu Gln Pro Gly Leu Glu Glu His Val
355 360 365

Val Gly Pro Arg Cys Pro Gln Cys Asp His Val Thr Leu Glu Asn Leu
370 375 380

Ser Ala Gly Leu Leu His His Gln Thr Phe Ala Ala Tyr Ala Ala Val

385		390		395		400
Tyr Gly Val Ala Gln Ala Leu His Asn Thr Leu Arg Cys Asn Ala Ser						
	405		410		415	
Gly Cys Pro Arg Arg Glu Pro Val Arg Pro Trp Gln Leu Leu Glu Asn						
	420		425		430	
Met Tyr Asn Val Ser Phe Arg Ala Arg Gly Leu Ala Leu Gln Phe Asp						
	435		440		445	
Ala Ser Gly Asn Val Asn Val Asp Tyr Asp Leu Lys Leu Trp Val Trp						
	450		455		460	
Gln Asp Pro Thr Pro Glu Leu Arg Thr Val Gly Thr Phe Lys Gly Arg						
465		470		475		480
Leu Glu Leu Trp Arg Ser Gln Met Cys Trp His Thr Pro Gly Lys Gln						
	485		490		495	
Gln Pro Val Ser Gln Cys Ser Arg Gln Cys Lys Glu Gly Gln Val Arg						
	500		505		510	
Arg Val Lys Gly Phe His Ser Cys Cys Tyr Asn Cys Val Asp Cys Lys						
	515		520		525	
Ala Gly Ser Tyr Gln Arg Asn Pro Asp Asp Leu Leu Cys Thr Gln Cys						
	530		535		540	
Asp Gln Asp Gln Trp Ser Pro Asp Arg Ser Thr Arg Cys Phe Ala Arg						
545		550		555		560
Lys Pro Met Phe Leu Ala Trp Gly Glu Pro Ala Val Leu Leu Leu Leu						
	565		570		575	
Ala Leu Leu Ala Leu Ala Leu Gly Leu Ala Leu Ala Ala Leu Gly Leu						
	580		585		590	
Phe Leu Trp His Ser Asp Ser Pro Leu Val Gln Ala Ser Gly Gly Pro						
	595		600		605	
Arg Ala Cys Phe Gly Leu Ala Cys Leu Gly Leu Val Cys Leu Ser Val						
610		615		620		

Leu Leu Phe Pro Gly Gln Pro Gly Pro Ala Ser Cys Leu Ala Gln Gln
625 630 635 640

Pro Leu Phe His Leu Pro Leu Thr Gly Cys Leu Ser Thr Phe Phe Leu
645 650 655

Gln Ala Ala Glu Ile Phe Val Gly Ser Glu Leu Pro Pro Ser Trp Ala
660 665 670

Glu Lys Met Arg Gly Arg Leu Arg Gly Pro Trp Ala Trp Leu Val Val
675 680 685

Leu Leu Ala Met Leu Ala Glu Ala Ala Leu Cys Ala Trp Tyr Leu Val
690 695 700

Ala Phe Pro Pro Glu Val Val Thr Asp Trp Arg Val Leu Pro Thr Glu
705 710 715 720

Ala Leu Val His Cys His Val His Ser Trp Ile Ser Phe Gly Leu Val
725 730 735

His Ala Thr Asn Ala Met Leu Ala Phe Leu Cys Phe Leu Gly Thr Phe
740 745 750

Leu Val Gln Ser Arg Pro Gly Arg Tyr Asn Gly Ala Arg Gly Leu Thr
755 760 765

Phe Ala Met Leu Ala Tyr Phe Ile Thr Trp Ile Ser Phe Val Pro Leu
770 775 780

Phe Ala Asn Val His Val Ala Tyr Gln Pro Ala Val Gln Met Gly Thr
785 790 795 800

Ile Leu Leu Cys Ala Leu Gly Ile Leu Ala Thr Phe His Leu Pro Lys
805 810 815

Cys Tyr Leu Leu Leu Gln Arg Pro Glu Leu Asn Thr Pro Glu Phe Phe
820 825 830

Leu Glu Asp Asn Ala Arg Ala Gln Gly Ser Ser Trp Gly Gln Gly Arg
835 840 845

Gly Glu Ser Gly Gln Lys Gln Val Thr Pro Asp Pro Val Thr Ser Pro
850 855 860

Gln
865

<210> 3
<211> 2532
<212> DNA
<213> Mus musculus

<400> 3
atgggacccc aggcgaggac actccatttg ctgtttctcc tgctgcatgc tctgcctaag 60
ccagtcatgc tggtagggaa ctccgacttt cacctggctg gggactacct cctgggtggc 120
ctctttaccc tccatgccaa cgtgaagagc gtctctcacc tcagctacct gcaggtgccc 180
aagtgcaatg agtacaacat gaaggtcttg ggctacaacc tcatgcaggc catgcgattc 240
gccgtggagg aaatcaacaa ctgtagctct ctgctgcccg gcgtgctgct cggctacgag 300
atgggtggatg tctgctacct ctccaacaat atccagcctg ggctctactt cctgtcacag 360
atagatgact tctgccccat cctcaaagac tacagccagt acaggcccca agtgggtggc 420
gtcattggcc cagacaactc tgagtcgcgc atcacctgtt ccaacattct ctctacttc 480
ctcgtgccac aggtcacata tagcgccatc accgacaagc tgcgagacaa gcggcgcttc 540
cctgccatgc tgcgcactgt gcccagcgcc acccaccaca tcgaggccat ggtgcaactg 600
atggttcact tccagtggaa ctggatcgtg gtgtggtga gcgatgacga ttatggccga 660
gagaacagcc acctgctgag ccagcgtctg accaactctg gcgatatctg cattgccttc 720
caggaggttc tgctgtacc agaaccacac caggccgtga ggctgagga gcaggaccaa 780
ctggacaaca tcttgacaaa gctgcggcgg acctcggcgc gtgtggtggt gatattctcg 840
ccagagctga gcctgcacaa cttcttcgcg gaggtgctgc gctggaactt cacaggcttt 900
gtgtggattg cctctgagtc ctgggccatc gaccctgttc tacacaacct cacagagctg 960
cgccacacgg gcactttcct gggcgctacc atccagaggg tgtccatccc tggettccagc 1020
cagttccgag tgcgccacga caagccagag tatcccatgc ctaacgagac cagcctgagg 1080
actacctgta accaggactg tgacgcctgc atgaacatca ccgagtcctt taacaacgtt 1140
ctcatgcttt cgggggagcg tgtggtctac agtgtgtact cggccgtcta cgcggtagcc 1200
cacaccctcc acagactcct cactgcaac caggtcgcgt gcaccaagca aatcgtctat 1260

ccatggcagc tactcagggg gatctggcat gtcaacttca cgctcctggg caaccagctc	1320
ttcttcgacg aacaagggga catgccgatg ctcttgagaca tcatccagtg gcaatggggc	1380
ctgagccaga accccttcca aagcatcgcc tcctactccc ccaccgagac gaggctgacc	1440
tacattagca atgtgtcctg gtacaccccc aacaacacgg tccccatata catgtgttct	1500
aagagttgcc agcctgggca aatgaaaaaa cccataggcc tccaccctg ctgcttcgag	1560
tgtgtggact gtccgccggg cacctacctc aaccgatcag tagatgagtt taactgtctg	1620
tcctgcccgg gttccatgtg gtcttacaag aacaacatcg cttgcttcaa gcggcggctg	1680
gccttcctgg agtggcacga agtgcccact atcgtggtga ccatcctggc cgccctgggc	1740
ttcatcagta cgctggccat tctgctcatc ttctggagac atttcagac gcccatggtg	1800
cgctcggcgg gcggccccc atgtcttcctg atgtggtgc ccctgtgct ggcggttcggg	1860
atggtccccg tgtatgtggg cccccccacg gtcttctcct gtttctgcgg ccaggctttc	1920
ttcacggttt gcttctccgt ctgcctctcc tgcatacagg tgcgctcctt ccagattgtg	1980
tgcgtcttca agatggccag acgctgcca agcgcctacg gtttctggat gcgttaccac	2040
gggcccctacg tctttgtggc ctcatcacg gccgtcaagg tggccctggg ggcaggcaac	2100
atgctggcca ccaccatcaa cccattggc cggaccgacc ccgatgaccc caatatcata	2160
atcctctcct gccaccctaa ctaccgcaac gggctactct tcaacaccag catggacttg	2220
ctgctgtccg tgcgtgggttt cagcttcgcg tacgtgggca aggaactgcc caccaactac	2280
aacgaagcca agttcatcac cctcagcatg accttctcct tcacctctc catctccctc	2340
tgcacgttca tgtctgtcca cgatggcgtg ctggtcacca tcatggatct cctggtcact	2400
gtgctcaact ttctggccat cggttgggg tactttggcc ccaagtgtta catgatcctt	2460
ttctaccggg agcgcaacac ttcagcttat ttcaatagca tgattcaggg ctacacgatg	2520
aggaagagct ag	2532

<210> 4

<211> 2529

<212> DNA

<213> Rattus rattus

<400> 4

atgggtcccc aggcaaggac actctgcttg ctgtctctcc tgctgcatgt tctgcctaag	60
ccaggcaagc tggtagagaa ctctgacttc cacctggccg gggactacct cctgggtggc	120
ctctttaccc tccatgccaa cgtgaagagc atctcccacc tcagctacct gcaggtgccc	180

aagtgcaatg agttcaccat gaaggtgttg ggctacaacc tcatgcaggc catgcgtttc	240
gctgtggagg agatcaacaa ctgtagctcc ctgctaccgc gcgtgctgct cggctacgag	300
atggtggatg tctgttacct ctccaacaat atccaccctg ggctctactt cctggcacag	360
gacgacgacc tectgcccac cctcaaagac tacagccagt acatgcccc a cgtgggtggct	420
gtcattggcc ccgacaactc tgagtcgcc attaccgtgt ccaacattct ctctcatttc	480
ctcatcccac agatcacata cagcgccatc tccgacaagc tgcgggacaa gcggcacttc	540
cctagcatgc tacgcacagt gccagcgcc acccaccaca tcgaggccat ggtgcagctg	600
atggttcact tccaatggaa ctggattgtg gtgctggtga gcgacgacga ttacggccgc	660
gagaacagcc acctgttgag ccagcgtctg accaaaacga gcgacatctg cattgccttc	720
caggagggttc tgcccatacc tgagtcagc caggtcatga ggtccgagga gcagagacaa	780
ctggacaaca tcctggacaa gctgcggcgg acctcggcgc gcgtcgtggt ggtgttctcg	840
cccgagctga gectgtatag cttctttcac gaggtgctcc gctggaactt cacgggtttt	900
gtgtggatcg cctctgagtc ctgggtatc gaccagttc tgcataacct cacggagctg	960
cgccacacgg gtacttttct gggcgtcacc atccagaggg tgtccatccc tggcttcagt	1020
cagttccgag tgcgccgtga caagccaggg tatcccgctgc ctaacacgac caacctgcgg	1080
acgacctgca accaggactg tgacgcctgc ttgaacacca ccaagtcctt caacaacatc	1140
cttatacttt cgggggagcg cgtggtctac agcgtgtact cggcagttta cgcggtggcc	1200
catgccctcc acagactcct cggtgtaac cgggtccgct gcaccaagca aaaggtctac	1260
ccgtggcagc tactcaggga gatctggcac gtcaacttca cgctcctggg taaccggctc	1320
ttctttgacc aacaagggga catgccgatg ctcttgga c tcatccagtg gcagtgggac	1380
ctgagccaga atcccttcca aagcatcgcc tcctattctc ccaccagcaa gaggctaacc	1440
tacattaaca atgtgtcctg gtacaccccc aacaacacgg tcctgtctc catgtgttcc	1500
aagagctgcc agccagggca aatgaaaaag tctgtgggcc tccacccttg ttgcttcgag	1560
tgcttgga tt gtatgccagg cacctacctc aaccgctcag cagatgagtt taactgtctg	1620
tcctgcccgg gttccatgtg gtcctacaag aacgacatca cttgcttcca gcggcggcct	1680
accttctg agtggcacga agtgcacc atcgtgggtg ccatactggc tgccctgggc	1740
ttcttcagta cactggccat tcttttcac ttctggagac atttcagac acccatggtg	1800
cgctcgccg gtggcccat gtgcttctg atgctcgtgc ccctgctgct ggcgtttggg	1860
atggtgcccg tgtatgtggg gccccccacg gtcttctcat gcttctgcg acaggctttc	1920

ttcacccgtct gcttctccat ctgcctatcc tgcataccg tgcgtcctt ccagatcgtg	1980
tgtgtcttca agatggccag acgcctgcc agtgcctaca gtttttggat gcgttaccac	2040
gggccctatg tcttcgtggc cttcatcacg gccatcaagg tggccctggt ggtgggcaac	2100
atgctggcca ccaccatcaa cccattggc cggaccgacc cggatgaccc caacatcatg	2160
atcctctcgt gccaccctaa ctaccgcaac gggctactgt tcaacaccag catggacttg	2220
ctgctgtctg tgctgggttt cagcttcgct tacatgggca aggagctgcc caccaactac	2280
aacgaagcca agttcatcac tctcagcatg accttctcct tcacctcctc catctccctc	2340
tgcaccttca tgtctgtgca cgacggcgtg ctggtcacca tcatggacct cctggtcact	2400
gtgctcaact tcctggccat cggttgga tactttggcc ccaagtgtta catgatcctt	2460
ttctaccgag agcgcaacac ctcagcctat ttcaatagca tgatccaggg ctacaccatg	2520
aggaagagc	